

Relational Database Index Design and the Optimizers

Tapio Laudenmäki and Michael Leach

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Relational Database Index Design and the Optimizers Tapio Lahdenmaki, Mike Leach, 2005-09-15 Improve the performance of relational databases with indexes designed for today's hardware Over the last few years hardware and software have advanced beyond all recognition so it's hardly surprising that relational database performance now receives much less attention Unfortunately the reality is that the improved hardware hasn't kept pace with the ever increasing quantity of data processed today Although disk packing densities have increased enormously making storage costs extremely low and sequential read very fast random reads are still painfully slow Many of the old design recommendations are therefore no longer valid the optimal point of indexing has come a long way Consequently many of the old problems haven't actually gone away they have simply changed their appearance This book provides an easy but effective approach to the design of indexes and tables Using lots of examples and case studies the authors describe how the DB2 Oracle and SQL Server optimizers determine how to access data and how CPU and response times for the resulting access paths can be quickly estimated This enables comparisons to be made of the various designs and helps you choose available choices for the most appropriate design This book is intended for anyone who wants to understand the issues of SQL performance or how to design tables and indexes effectively With this title readers with many years of experience of relational systems will be able to better grasp the implications that have been brought into play by the introduction of new hardware **Databases**

Theory and Applications Tong Chen, Yang Cao, Quoc Viet Hung Nguyen, Thanh Tam Nguyen, 2024-12-12 This LNCS volume constitutes the referred proceedings of 35th Australasian Database Conference ADC 2024 held in Gold Coast QLD Australia and Tokyo Japan during December 16-18 2024 The 38 full papers included in these proceedings were carefully reviewed and selected from 90 submissions They focus on latest advancements and innovative applications in database systems data driven applications and data analytics **American Book Publishing Record**, 2003 *The British National Bibliography* Arthur

James Wells, 2006 **BIM : 10 ans de pratique, retours d'expérience et perspectives** Olivier Celnik, Christophe Lheureux, 2025-04-03 Dix ans après son déploiement en France le BIM peine à s'imposer aussi rapidement que prévu dans le secteur de la construction freiné par la résistance au changement et quelques retours d'expérience mitigés Pourtant lorsqu'il est correctement mis **Advances in Database Technology - EDBT 2006** Yannis Ioannidis, Marc H. Scholl, Joachim W.

Schmidt, Florian Matthes, Mike Hatzopoulos, Klemens Boehm, Alfons Kemper, Torsten Grust, Christian Boehm, 2006-03-10 This book constitutes the refereed proceedings of the 10th International Conference on Extending Database Technology EDBT 2006 held in Munich Germany in March 2006 The 60 revised research papers presented together with eight industrial application papers 20 software demos and three invited contributions were carefully reviewed and selected from 352 submissions The papers are organized in topical sections Proceedings, 1997 Proceedings of the 1997 ACM SIGMOD International Conference on Management of Data Joan M. Peckman, 1997 *Expert Indexing in Oracle Database 11g* Darl

Kuhn, Sam Alapati, Bill Padfield, 2012-03-23 Expert Indexing in Oracle Database 11g is about the one database structure at the heart of almost all performance concerns the index Database system performance is one of the top concerns in information technology today Administrators struggle to keep up with the explosion of access and activity driven by the proliferation of computing into everything from phones to tablets to PCs in our increasingly connected world At the heart of any good performing database lies a sound indexing strategy that makes appropriate use of indexing and especially of the vendor specific indexing features on offer Few databases fully exploit the wealth of data access mechanisms provided by Oracle Expert Indexing in Oracle Database 11g helps by bringing together information indexing and how to use it into one convenient and blissfully short volume that you can read quickly and have at your fingertips for reference Learn the different types of indices available and when each is best applied Recognize when queries aren't using indices as you intend Manage your indexing for maximum performance Let Expert Indexing in Oracle Database 11g be your guide to deep mastery of the most fundamental performance optimization structure in Oracle Database Explains how indices work how they help and how they hinder Demystifies the various index choices Describes the database administration chores associated with indices

Physical Database Design Sam S. Lightstone, Toby J. Teorey, Tom Nadeau, 2010-07-26 The rapidly increasing volume of information contained in relational databases places a strain on databases performance and maintainability DBAs are under greater pressure than ever to optimize database structure for system performance and administration Physical Database Design discusses the concept of how physical structures of databases affect performance including specific examples guidelines and best and worst practices for a variety of DBMSs and configurations Something as simple as improving the table index design has a profound impact on performance Every form of relational database such as Online Transaction Processing OLTP Enterprise Resource Management ERP Data Mining DM or Management Resource Planning MRP can be improved using the methods provided in the book The first complete treatment on physical database design written by the authors of the seminal Database Modeling and Design Logical Design Fourth Edition Includes an introduction to the major concepts of physical database design as well as detailed examples using methodologies and tools most popular for relational databases today Oracle DB2 IBM and SQL Server Microsoft Focuses on physical database design for exploiting B tree indexing clustered indexes multidimensional clustering MDC range partitioning shared nothing partitioning shared disk data placement materialized views bitmap indexes automated design tools and more The Relational Database Dictionary C. J. Date, 2006 Avoid misunderstandings that can affect the design programming and use of database systems Whether you're using Oracle DB2 SQL Server MySQL or PostgreSQL The Relational Database Dictionary will prevent confusion about the precise meaning of database related terms e.g. attribute 3NF one to many correspondence predicate repeating group join dependency helping to ensure the success of your database projects Carefully reviewed for clarity accuracy and completeness this authoritative and comprehensive quick reference contains more than 600 terms many with examples

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Database Performance Tuning and Optimization Sitansu S. Mittra, 2006-04-18 Scope The book provides comprehensive coverage of database performance tuning and optimization using Oracle 8i as the RDBMS The chapters contain both theoretical discussions dealing with principles and methodology as well as actual SQL scripts to implement the methodology The book combines theory with practice so as to make it useful for DBAs and developers irrespective of whether they use Oracle 8i Readers who do not use Oracle 8i can implement the principles via scripts of their own written for the particular RDBMS they use I have tested each script for accuracy and have included the sample outputs generated from them An operational database has three levels conceptual internal and external The conceptual level results from data modeling and logical database design When it is implemented via an RDBMS such as Oracle it is mapped onto the internal level Database

jects of the conceptual level are associated with their physical counterparts in the internal level An external level results from a query against the database and as such provides a window to the database There are many external levels for a single conceptual level

Expert Oracle Indexing and Access Paths Darl Kuhn, Sam R Alapati, Bill Padfield, 2016-09-27 Speed up the execution of important database queries by making good choices about which indexes to create Choose correct index types for different scenarios Avoid indexing pitfalls that can actually have indexes hurting performance rather than helping Maintain indexes so as to provide consistent and predictable query response over the lifetime of an application Expert Oracle Indexing and Access Paths is about the one database structure at the heart of almost all performance concerns the index Database system performance is one of the top concerns in information technology today Administrators struggle to keep up with the explosion of access and activity driven by the proliferation of computing into everything from phones to tablets to PCs in our increasingly connected world At the heart of any good performing database lies a sound indexing strategy that makes appropriate use of indexing and especially of the vendor specific indexing features on offer Few databases fully exploit the wealth of data access mechanisms provided by Oracle Expert Oracle Indexing and Access Paths helps by bringing together information on indexing and how to use it into one blissfully short volume that you can read quickly and have at your fingertips for reference Learn the different types of indexes available and when each is best applied Recognize when queries aren't using indexes as you intend Manage your indexing for maximum performance Confidently use the In Memory column store feature as an alternate access path to improve performance Let Expert Indexing in Oracle Database 12c be your guide to deep mastery of the most fundamental performance optimization structure in Oracle Database Explains how indexes help performance and sometimes hinder it too Demystifies the various index choices so that you can choose rightly Describes the database administration chores associated with indexes Demonstrates the use of the In Memory column store as an alternate access path to the data What You Will Learn Create an overall indexing strategy to guide your decisions Choose the correct indexing mechanisms for your applications Manage and maintain indices to avoid degradation and preserve efficiency Take better advantage of underused index types such as index organized tables Choose the appropriate columns to index with confidence Blend partitioning and materialized views into your indexing strategy Who This Book Is For All levels of database administrators and application developers who are struggling with the database performance and scalability challenge Any database administrator involved with indexing which is any database administrator period will appreciate the wealth of advice packed into this gem of a book

SQL Performance Tuning Peter Gulutzan, Trudy Pelzer, 2003 A very practical guide to making databases run faster and better A poorly performing database application can cost each user time and have an impact on other applications running on the same computer or the same network This book will help DBAs and programmers improve the performance of their databases

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